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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
09/017,735	02/03/98	GREY			Н	018623-00589
		ли сосот				EXAMINER
HM12/0327 - HM12/0327 - ELLEN LAUVER WEBER, ESQ.					SCHWADRON,R	
TOWNSEND AND TOWNSEND AND CREW LLP					ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademark

Application No. 09/017,735

Applicant(s)

Grey et al.

Office Action Summary

Examiner

Ron Schwadron, Ph.D.

Group Art Unit 1644

Responsive to communication(s) filed on	
☐ This action is FINAL .	
☐ Since this application is in condition for allowance except in accordance with the practice under <i>Ex parte Quayle</i> , 19	135 C.D. 11; 453 O.G. 213.
A shortened statutory period for response to this action is set is longer, from the mailing date of this communication. Failur application to become abandoned. (35 U.S.C. § 133). Exter 37 CFR 1.136(a).	t to expire1 month(s), or thirty days, whichever to respond within the period for response will cause the
Disposition of Claims	is/are pending in the application.
X Claim(s) 9-62	is/are pending in the application.
Of the above, claim(s)	is/are withdrawn from consideration.
Claim(s)	is/are allowed.
Claim(s)	is/are rejected.
Claim(s)	is/are objected to.
X Claims 9-62	are subject to restriction or election requirement.
Application Papers See the attached Notice of Draftsperson's Patent Draw The drawing(s) filed on is/are of The proposed drawing correction, filed on is/are of The specification is objected to by the Examiner. The oath or declaration is objected to by the Examiner Priority under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign prior All Some* None of the CERTIFIED copie received. received in Application No. (Series Code/Serial II) received in this national stage application from **Certified copies not received: Acknowledgement is made of a claim for domestic prior	is approved disapproved. ity under 35 U.S.C. § 119(a)-(d). s of the priority documents have been Number) the International Bureau (PCT Rule 17.2(a)).
Attachment(s) Notice of References Cited, PTO-892 Information Disclosure Statement(s), PTO-1449, Paper Interview Summary, PTO-413 Notice of Draftsperson's Patent Drawing Review, PTO Notice of Informal Patent Application, PTO-152	
SEE OFFICE ACTION (ON THE FOLLOWING PAGES

- 1. The amendment filed 9/8/99 has necessitated the following new restriction requirement. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
- I. Claims 24,25,32,33,51,52,55,56 are drawn to methods of gene therapy classified in Class 514, subclass 44.
- II. Claims 9-23,26-31,34-50,53,54,57-62 a method of inducing a CTL response, classified in Class 424, subclass 193.1. Said claims are under consideration only in so far as they encompass methods that use peptides.
- 2. Inventions I and II are different methods that use different ingredients. Invention I is drawn to a method of gene therapy, while invention II is drawn to a method of treatment with peptides. These methods use different ingredients and process steps. Therefore they are novel and unobvious in view of each other and are patentably distinct.
- 3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II and Groups I and II have acquired a separate status in the art as shown by their different classification and divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 5. Applicant is required to elect the following species (as they pertain to the elected invention).
- 6. This application contains claims directed to the following patentably distinct species of the claimed invention. A method that recites use of:
 - a) a peptide that comprises an epitope consisting of 8 residues
 - b) a peptide that comprises an epitope consisting of 9 residues
 - c) a peptide that comprises an epitope consisting of 10 residues

d) a peptide that comprises an epitope consisting of 11 residues

These peptides are different in that they are of different lengths.

Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

7. Upon selecting a peptide from a-d from the requirement enunciated in the previous paragraph of this Office Action, a further election of species is required.

The claims are generic to a plurality of disclosed patentably distinct species comprising a method that uses any particular set of peptides which is encompassed by a particular formula recited in the claims. Such species would be a peptide with a first conserved residue at the second position from the N-terminus where the amino acid was A and a second conserved residue at the C-terminal wherein the amino acid was M (eg. the peptide of claim 56 wherein one amino acid from each Markush group recited in the claim is elected). Applicant needs to select one species for examination (eg. A at first specified position, M at second specified position). These peptides are structurally and functionally distinct and encode peptides that are structurally and functionally distinct, and derived from different proteins with different functions.

Applicant is required to elect a species of peptide from one of the peptides recited in Tables 3-5. Said species should be encompassed by the elected motif formula above (eg. if applicant elects a nine amino acid peptide with A at position one and M at position two, then the peptide elected from Table 3 should have the aforementioned characteristics). Furthermore, said peptide also needs to be consistent with all other elected species chosen by applicant (eg. if applicant elects cancer antigen, then the elected peptide needs to be a cancer antigen derived peptide).

Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species, even though this requirement is traversed.

- 8. Upon selecting a peptide from the requirement enunciated in paragraphs 6 and 7 of this Office Action, a further election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention. A method that uses:
 - a) a peptide comprising an immunogenic epitope not linked to another molecule

- b) peptide attached to a lipid
- c) a peptide attached to a T helper epitope
- d) a peptide attached Pan DR epitope
- e) a peptide attached to a CTL epitope
- f) a peptide linked to a carrier

These peptides are structurally and functionally distinct and encode peptides that are structurally and functionally distinct, and derived from different proteins with different functions.

Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

- 9. Upon selecting a peptide species above, a further election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention. A method that uses:
 - a) peptide encoding cancer associated antigen
 - b) pathogen derived peptide

These peptides are structurally and functionally distinct and encode peptides that are structurally and functionally distinct, and derived from different proteins with different functions.

- 10. Upon selecting a peptide species above, a further election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention. A method that uses:
 - a) peptide isolated from natural source
 - b) chemically synthesized peptide

These peptides are structurally and functionally distinct and encode peptides that are structurally and functionally distinct, and derived from different proteins with different functions.

11. Upon selecting a peptide species above, a further election of species is required. This application contains claims directed to the following patentably distinct species of the claimed invention:

- a) in vivo method
- b) in vitro method

These methods involve different steps and reagents.

12. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

- 13. Papers related to this application may be submitted to Group 1600 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). Papers should be faxed to Group 1600 at (703) 308-4242.
- 14. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Dr. Ron Schwadron whose telephone number is (703) 308-4680. The

examiner can normally be reached Monday through Thursday from 7:30 to 6:00. A message may be left on the examiners voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Ms Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703) 308-0196.

Ron Schwadron, Ph.D.

Primary Examiner

Art Unit 1644

RONALD B. SCHWADRON
PRIMARY EXAMINER
GROUP 1890 (600